RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: _10/590,691_

Source: _1FWP_

Date Processed by STIC: _9/6/06_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/590,691

CRF Edit Date: 9/6/06
Edited by: AV

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

_____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

_____ Inserted mandatory headings/numeric identifiers, specifically:

_____

_____ Moved responses to same line as heading/numeric identifier, specifically:

_____

✓ Other: Sequence 12-corrected amino acid numbering

_____
_____

RAW SEQUENCE LISTING   DATE: 09/06/2006
PATENT APPLICATION: US/10/590,691   TIME: 15:07:33

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\09062006\J590691.raw**

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 3 <110> APPLICANT: Lepist, Matti
 4         Pawlowski, Kryzysztof
 6 <120> TITLE OF INVENTION: Methods for Identifying Compounds Capable of Modulating the
 7         Hydrolase Activity of CLCA Protein
 9 <130> FILE REFERENCE: 06275-519US1
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C--> 11 **<140> CURRENT APPLICATION NUMBER: US/10/590,691**
C--> 11 **<141> CURRENT FILING DATE: 2006-08-25**

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11 <150> PRIOR APPLICATION NUMBER: PCT/SE2005/000316
12 <151> PRIOR FILING DATE: 2005-03-03
14 <150> PRIOR APPLICATION NUMBER: SE 0400564-1
15 <151> PRIOR FILING DATE: 2004-03-05
17 <160> NUMBER OF SEQ ID NOS: 44
19 <170> SOFTWARE: PatentIn version 3.1
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24 <212> TYPE: PRT
25 <213> ORGANISM: Bos taurus
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31             20                  25                  30
32 Pro Ser Val Pro Glu Asp Glu Lys Leu Ile Glu Asn Ile Lys Glu Met
33         35                  40                  45
34 Val Thr Glu Ala Ser Thr Tyr Leu Phe His Ala Thr Lys Arg Arg Val
35     50                  55                  60
36 Tyr Phe Arg Asn Val Ser Ile Leu Ile Pro Met Thr Trp Lys Ser Lys
37 65                  70                  75                  80
38 Ser Glu Tyr Phe Ile Pro Lys Gln Glu Ser Tyr Asp Gln Ala Asp Val
39                 85                  90                  95
40 Ile Val Ala Asn Pro Tyr Leu Lys Tyr Gly Asp Asp Pro Tyr Thr Leu
41             100                 105                 110
42 Gln Tyr Gly Arg Cys Gly Glu Lys Gly Lys Tyr Ile His Phe Thr Pro
43         115                 120                 125
44 Asn Phe Leu Leu Thr Asn Asn Phe His Ile Tyr Gly Ser Arg Gly Arg
45     130                 135                 140
46 Val Phe Val His Glu Trp Ala His Leu Arg Trp Gly Ile Phe Asp Glu
47 145                 150                 155                 160
48 Tyr Asn Val Asp Gln Pro Phe Tyr Ile Ser Arg Lys Asn Thr Ile Glu
49                 165                 170                 175
50 Ala Thr Arg Cys Ser Thr His Ile Thr Gly Ile Asn Val Val Phe Lys
51             180                 185                 190
52 Lys Cys Pro Gly Gly Ser Cys Ile Thr Ser Leu Cys Arg Arg Asp Ser
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```
53            195                  200                  205
54 Gln Thr Gly Leu Tyr Glu Ala Lys Cys Thr Phe Leu Pro Lys Lys Ser
55      210                  215                  220
56 Gln Thr Ala Lys Glu Ser Ile Met Phe Met Pro Ser Leu His Ser Val
57 225                  230                  235                  240
58 Thr Glu Phe Cys Thr Glu Lys Thr His Asn Thr Glu Ala Pro Asn Leu
59                  245                  250                  255
60 Gln Asn Lys Met Cys Asn Gly Lys Ser Thr Trp Asp Val Ile Met Asn
61              260                  265                  270
62 Ser Val Asp Phe Gln Asn Thr Ser Pro Met Thr Glu Met Asn Pro Pro
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70 <212> TYPE: PRT
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76 Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
77                  20                  25                  30
78 Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr
79          35                  40                  45
80 Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu
81      50                  55                  60
82 Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu
83 65                  70                  75                  80
84 Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu
85                  85                  90                  95
86 Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro
87              100                  105                  110
88 Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys
89          115                  120                  125
90 Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu
91      130                  135                  140
92 Ala Glu Tyr Gly Pro Gln Gly Lys Ala Phe Val His Glu Trp Ala His
93 145                  150                  155                  160
94 Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr
95                  165                  170                  175
96 Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr
97              180                  185                  190
98 Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys
99          195                  200                  205
100 Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu
101      210                  215                  220
102 Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
103 225                  230                  235                  240
104 Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn
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                 RAW SEQUENCE LISTING              DATE: 09/06/2006
                 PATENT APPLICATION:  US/10/590,691  TIME: 15:07:33

                 Input Set : A:\PTO.AMC.txt
                 Output Set: N:\CRF4\09062006\J590691.raw

105                   245                 250                 255
106 Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr
107                   260                 265                 270
108 Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met
109           275                 280                 285
110 Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln
111       290                 295                 300
112 Arg Ile
113 305
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118 <212> TYPE: PRT
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125               20                  25                  30
126 Asp Ile Val Ile Val Ile Asp Pro Ser Val Pro Glu Asp Glu Lys Ile
127           35                  40                  45
128 Ile Glu Gln Ile Glu Asp Met Val Thr Thr Ala Ser Thr Tyr Leu Phe
129       50                  55                  60
130 Glu Ala Thr Glu Lys Arg Phe Phe Phe Lys Asn Val Ser Ile Leu Ile
131 65                  70                  75                  80
132 Pro Glu Asn Trp Lys Glu Asn Pro Gln Tyr Lys Arg Pro Lys His Glu
133               85                  90                  95
134 Asn His Lys His Ala Asp Val Ile Val Ala Pro Pro Thr Leu Pro Gly
135               100                 105                 110
136 Arg Asp Glu Pro Tyr Thr Lys Gln Phe Thr Glu Cys Gly Glu Lys Gly
137           115                 120                 125
138 Glu Tyr Ile His Phe Thr Pro Asp Leu Leu Leu Gly Lys Lys Gln Asn
139       130                 135                 140
140 Glu Tyr Gly Pro Pro Gly Lys Leu Phe Val His Glu Trp Ala His Leu
141 145                 150                 155                 160
142 Arg Trp Gly Val Phe Asp Glu Tyr Asn Glu Asp Gln Pro Phe Tyr Arg
143               165                 170                 175
144 Ala Lys Ser Lys Lys Ile Glu Ala Thr Arg Cys Ser Ala Gly Ile Ser
145               180                 185                 190
146 Gly Arg Asn Arg Val Tyr Lys Cys Gln Gly Gly Ser Cys Leu Ser Arg
147           195                 200                 205
148 Ala Cys Arg Ile Asp Ser Thr Thr Lys Leu Tyr Gly Lys Asp Cys Gln
149       210                 215                 220
150 Phe Phe Pro Asp Lys Val Gln Thr Glu Lys Ala Ser Ile Met Phe Met
151 225                 230                 235                 240
152 Gln Ser Ile Asp Ser Val Val Glu Phe Cys Asn Glu Lys Thr His Asn
153               245                 250                 255
154 Gln Glu Ala Pro Ser Leu Gln Asn Ile Lys Cys Asn Phe Arg Ser Thr
155           260                 265                 270
156 Trp Glu Val Ile Ser Asn Ser Glu Asp Phe Lys Asn Thr Ile Pro Met
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RAW SEQUENCE LISTING   DATE: 09/06/2006
PATENT APPLICATION: US/10/590,691   TIME: 15:07:33

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09062006\J590691.raw

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159     290                  295                  300
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166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 4
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172 Ser Glu Leu Pro Phe Leu Gly Ala Gly Val Gln Leu Gln Asp Asn Gly
173           20                  25                  30
174 Tyr Asn Gly Leu Leu Ile Ala Ile Asn Pro Gln Val Pro Glu Asn Gln
175           35                  40                  45
176 Asn Leu Ile Ser Asn Ile Lys Glu Met Ile Thr Glu Ala Ser Phe Tyr
177     50                  55                  60
178 Leu Phe Asn Ala Thr Lys Arg Arg Val Phe Phe Arg Asn Ile Lys Ile
179 65                  70                  75                  80
180 Leu Ile Pro Ala Thr Trp Lys Ala Asn Asn Ser Lys Ile Lys Gln
181           85                  90                  95
182 Glu Ser Tyr Glu Lys Ala Asn Val Ile Val Thr Asp Trp Tyr Gly Ala
183           100                 105                 110
184 His Gly Asp Asp Pro Tyr Thr Leu Gln Tyr Arg Gly Cys Gly Lys Glu
185           115                 120                 125
186 Gly Lys Tyr Ile His Phe Thr Pro Asn Phe Leu Leu Asn Asp Asn Leu
187     130                 135                 140
188 Thr Ala Gly Tyr Gly Ser Arg Gly Arg Val Phe Val His Glu Trp Ala
189 145                 150                 155                 160
190 His Leu Arg Trp Gly Val Phe Asp Glu Tyr Ile Asn Asp Lys Pro Phe
191           165                 170                 175
192 Tyr Ile Asn Gly Gln Asn Gln Ile Lys Val Thr Arg Cys Ser Ser Asp
193           180                 185                 190
194 Ile Thr Gly Ile Phe Val Cys Glu Lys Gly Pro Cys Pro Gln Glu Asn
195           195                 200                 205
196 Cys Ile Ile Ser Lys Leu Phe Lys Glu Gly Cys Thr Phe Ile Tyr Asn
197     210                 215                 220
198 Ser Thr Gln Asn Ala Thr Ala Ser Ile Met Phe Met Gln Ser Leu Ser
199 225                 230                 235                 240
200 Ser Val Val Glu Phe Cys Asn Ala Ser Thr His Asn Gln Glu Ala Pro
201           245                 250                 255
202 Asn Leu Gln Asn Gln Met Cys Ser Leu Arg Ser Ala Trp Asp Val Ile
203           260                 265                 270
204 Thr Asp Ser Ala Asp Phe His His Ser Phe Pro Met Asn Gly Thr Glu
205           275                 280                 285
206 Leu Pro Pro Pro Pro Thr Phe Ser Leu Val Gln Ala Gly Asp Lys Val
207     290                 295                 300
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RAW SEQUENCE LISTING   DATE: 09/06/2006
PATENT APPLICATION: US/10/590,691   TIME: 15:07:33

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09062006\J590691.raw

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213 <213> ORGANISM: Homo sapiens
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218 Leu Lys Ser Ser Leu Val Thr Leu Asn Asn Asn Gly Tyr Asp Gly Ile
219             20                  25                  30
220 Val Ile Ala Ile Asn Pro Ser Val Pro Glu Asp Glu Lys Leu Ile Gln
221         35                  40                  45
222 Asn Ile Lys Glu Met Val Thr Glu Ala Ser Thr His Leu Phe His Ala
223     50                  55                  60
224 Thr Lys Gln Arg Ala Tyr Phe Arg Asn Val Ser Ile Leu Ile Pro Met
225 65                  70                  75                  80
226 Thr Tyr Lys Ser Lys Ser Glu Tyr Leu Ile Pro Lys Gln Glu Thr Tyr
227             85                  90                  95
228 Asp Gln Ala Asp Val Ile Val Ala Asp Leu Tyr Leu Lys Tyr Gly Asp
229             100                 105                 110
230 Asp Pro Tyr Thr Leu Gln Tyr Gly Gln Cys Gly Asp Lys Gly Gln Tyr
231         115                 120                 125
232 Ile His Phe Thr Pro Asn Phe Leu Leu Thr Asn Asn Leu Ala Thr Tyr
233     130                 135                 140
234 Gly Pro Arg Gly Lys Val Phe Val His Gly Trp Ala His Leu Arg Trp
235 145                 150                 155                 160
236 Gly Val Phe Asp Glu Tyr Asn Val Asp Gln Pro Phe Tyr Ile Ser Arg
237             165                 170                 175
238 Arg Asn Thr Thr Glu Ala Thr Arg Cys Ser Thr Arg Ile Thr Val Tyr
239             180                 185                 190
240 Met Val Leu Asn Glu Cys Lys Gly Ala Ser Cys Ile Ala Arg Pro Phe
241             195                 200                 205
242 Arg Arg Asp Ser Gln Thr Gly Leu Tyr Glu Ala Lys Cys Thr Phe Ile
243     210                 215                 220
244 Pro Lys Arg Ser Gln Thr Ala Lys Glu Ser Ile Val Phe Met Gln Asn
245 225                 230                 235                 240
246 Leu Asp Ser Val Thr Glu Phe Cys Thr Glu Lys Thr His Asn Lys Glu
247             245                 250                 255
248 Ala Pro Asn
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253 <212> TYPE: PRT
254 <213> ORGANISM: Mus musculus
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260             20                  25                  30
261 Ile Thr Glu Ala Ser Phe Tyr Leu Phe Asn Ala Thr Lys Arg Arg Val
262         35                  40                  45
263 Phe Phe Arg Asn Val Gln Ile Leu Val Pro Ala Thr Trp Thr Asp His
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/06/2006
PATENT APPLICATION: US/10/590,691   TIME: 15:07:34

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09062006\J590691.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; Xaa Pos. 49,263
Seq#:17; Xaa Pos. 267
Seq#:20; Xaa Pos. 39,61,65,77,168,171,172,197
Seq#:23; Xaa Pos. 186,192
Seq#:44; Xaa Pos. 1,6

VERIFICATION SUMMARY   DATE: 09/06/2006
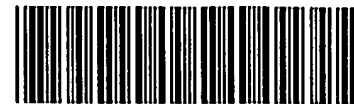PATENT APPLICATION: US/10/590,691   TIME: 15:07:34

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09062006\J590691.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:48
M:341 Repeated in SeqNo=14
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:256
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:32
M:341 Repeated in SeqNo=20
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:176
L:1632 M:283 W: Missing Blank Line separator, <220> field identifier
L:1666 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:1682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0

Raw Sequence Listing before editing
(for reference only)

IFW𝑃

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 3 <110> APPLICANT: Lepist, Matti
 4        Pawlowski, Kryzysztof
 6 <120> TITLE OF INVENTION: Methods for Identifying Compounds Capable of Modulating the
 7        Hydrolase Activity of CLCA Protein
 9 <130> FILE REFERENCE: 06275-519US1
11 <140> CURRENT APPLICATION NUMBER: US/10/590,691
11 <141> CURRENT FILING DATE: 2006-08-25
11 <150> PRIOR APPLICATION NUMBER: PCT/SE2005/000316
12 <151> PRIOR FILING DATE: 2005-03-03
14 <150> PRIOR APPLICATION NUMBER: SE 0400564-1
15 <151> PRIOR FILING DATE: 2004-03-05
17 <160> NUMBER OF SEQ ID NOS: 44
19 <170> SOFTWARE: PatentIn version 3.1
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C--> 11 (line 11)
C--> 11 (line 11)

Does Not Comply Corrected Diskette Needed

ERRORED SEQUENCES

𝑃.2

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536 <211> LENGTH: 308
537 <212> TYPE: PRT
538 <213> ORGANISM: Bos taurus
540 <400> SEQUENCE: 12
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543 Pro Gly Met Lys Ser Ser Met Val Asn Leu Ile Asn Asn Gly Tyr Asp
544             20                  25                  30
545 Gly Ile Val Ile Ala Ile Asn Pro Ser Val Pro Glu Asp Glu Lys Leu
546         35                  40                  45
547 Ile Gln Asn Ile Lys Glu Met Val Thr Glu Ala Ser Thr Tyr Leu Phe
548     50                  55                  60
549 His Ala Thr Lys Arg Arg Val Tyr Phe Arg Asn Val Ser Ile Leu Ile
550 65                  70                  75                  80
551 Pro Met Thr Trp Lys Ser Lys Ser Glu Tyr Leu Met Pro Lys Gln Glu
552                 85                  90                  95
553 Ser Tyr Asp Gln Ala Glu Val Ile Val Ala Asn Pro Tyr Leu Lys His
554             100                 105                 110
555 Gly Asp Asp Pro Tyr Thr Leu Gln Tyr Gly Arg Cys Gly Glu Lys Gly
556         115                 120                 125
557 Gln Tyr Ile His Phe Thr Pro Asn Phe Leu Leu Thr Asn Asn Leu Pro
558     130                 135                 140
559 Ile Tyr Gly Ser Arg Gly Arg Ala Phe Val His Glu Trp Ala His Leu
560 145                 150                 155                 160
561 Arg Trp Gly Ile Phe Asp Glu Tyr Asn Gly Asp Gln Pro Phe Tyr Ile
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RAW SEQUENCE LISTING   DATE: 09/05/2006
PATENT APPLICATION: US/10/590,691   TIME: 15:06:26

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\09052006\J590691.raw

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564                   180                 185                 190
565 Gly Thr Asn Val Ile Val Lys Cys Gln Gly Gly Ser Cys Ile Thr Arg
566          195                 200                 205
567 Pro Cys Arg Arg Asp Ser Gln Thr Gly Leu Tyr Glu Ala Lys Cys Thr
568       210              215                 220
569 Phe Ile Pro Glu Lys Ser Gln Thr Ala Arg Glu Ser Ile Met Phe Met
570   25 225              230             235                 240
571 Gln Ser Leu His Ser Val Thr Glu Phe Cys Thr Glu Lys Thr His Asn
572              245                 250                 255
573 Val Glu Ala Pro Asn Leu Gln Asn Lys Met Cys Asn Gly Lys Ser Thr
574          260                 265                 270
575 Trp Asp Val Ile Met Asn Ser Thr Asp Phe Gln Asn Thr Ser Pro Met
576       275              280                 285
577 Thr Glu Met Asn Pro Pro Thr Gln Pro Thr Phe Ser Leu Leu Lys Ser
578       290                 295                 300
579 Lys Gln Arg Val
580 305
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E--> 570 *edit numbering*

VERIFICATION SUMMARY   DATE: 09/05/2006
PATENT APPLICATION: **US/10/590,691**   TIME: 15:06:27

Input Set : **A:\pto.da.txt**
Output Set: **N:\CRF4\09052006\J590691.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:570 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:48
L:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:256
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:256
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:32
L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:48
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:64
L:962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:160
L:966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:192
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:176
L:1632 M:283 W: Missing Blank Line separator, <220> field identifier
L:1666 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:1682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0